

AMENDMENTS TO THE SPECIFICATION

[0084] As noted, the frame 102 provides a support for the other elements of the library 100. In addition, the frame 102 may comprise one or more exterior surfaces that form a cabinet for enclosing most of the components of the library 100. [The frame may further define an interior space 103]. Typically, the cabinet establishes an environment whose temperature can be controlled for the benefit of the elements of the library 100 housed within the cabinet. The cabinet also commonly serves as a barrier to contaminants that could adversely affect the operation of the elements housed within the library 100. Additionally, the cabinet is also useful in preventing an operator from accessing the space within the cabinet during operation of the library 100 and potentially being injured by the moving elements within the library 100. ~~Note: should I define what components means? I think elements are storage elements or cartridges? I need to do a search and find~~

[0085] There are a number of devices that do not necessarily need to be part of the magazine-based-data cartridge library 100 (i.e., not supported by the frame 102) but are nonetheless needed for the library 100 to function and, as a consequence, typically are part of the library 100. Among these devices are a power supply system 114 (which may be comprised of multiple power supplies) and a controller 116 for managing the operations of the library 100. Environmental devices 118, such as fans, fins, heat pipes, etc., are additionally incorporated into the library 100 to manage excess heat build-up beyond what the library 100 is able to passively dissipate.

~~Needs to define what operations of the library means? Pay attention to ensuing paragraphs...~~

[0088] FIGS. 2A-2E are plan views of five different rectilinear type layouts for the magazine-based data cartridge library 100. In the layout illustrated in FIG. 2A, a drive 128 (or drives) and/or a shelf 130 (or shelves) are oriented along a straight line/plane 132. A robot 134 is provided that cumulatively represents the magazine transport 108 and the cartridge transport 110. In this embodiment, the robot 134 is capable of accessing the drive(s) 128 for purposes of inserting or extracting data cartridges (not shown) as indicated by the two-way arrow 129.

The robot 134 is further capable of accessing the shelf/shelves 130 to displace a magazine 101, such as to remove for example, as indicated by the two-way arrow 131. With respect to the rectilinear type layouts shown in FIGS. 2B-2E, the drive 128 and shelf 130 elements retain the same reference numbers as those elements bear in FIG. 2A. Additionally, the two-way arrows, such as arrow 131, indicate an access locations to drive 128 and shelf 130 elements. In the embodiment illustrated in FIG. 2B, at least one drive 128 and/or at least one shelf 130 is/are laid out along line/plane 136A, and at least one drive 128 and/or at least one shelf 130 is/are laid out along line/plane 136B, which is parallel to line/plane 136A. In the embodiment illustrated in FIG. 2C, at least one drive 128 and/or at least one shelf 130 is/are laid out along line/plane 138A, and at least one drive 128 and/or at least one shelf 130 is/are laid out along line/plane 138B, which is perpendicular to line/plane 138A. With respect to the embodiment of FIG. 2D, at least one drive 128 and/or at least one shelf 130 is/are laid out along each of lines/planes 140A, 140B and 140C, with lines/planes 140A and 140B being parallel to each other and perpendicular to line/plane 140C. In the embodiment illustrated in FIG. 2E, at least one drive 128 and/or at least one shelf 130 is/are laid out along each of lines/planes 142A-142D, with lines/planes 142A, 142B being parallel to one-another, and with lines/planes 142C, 142D being parallel to one another and perpendicular to the parallel lines/planes 142A, 142B. It should be appreciated that each of the embodiments comprises at least one drive 128. Further, each embodiment comprises at least one shelf 130 that is capable of supporting two or more magazines 101, from FIG. 1, or multiple shelves 130 that cumulatively support two or more magazines 101. It should also be appreciated that the illustrated location of a drive 128 or shelf 130 along a line/plane is merely illustrative and that the actual location of a drive 128 or shelf 130 can be anywhere along a line/plane. It should also be appreciated that, while the robot 134 cumulatively represents the magazine transport 108 and cartridge transport 110, the magazine transport 108 and the cartridge transport 110 may share one or more elements or be entirely separate from one another???. It should be further appreciated that there may be other rectilinear layouts for the magazine-based data cartridge library 100 capable of cooperating with a magazine transport 108.